

# MATERIAL SAFETY DATA SHEET

**MANUFACTURER:** ALPINE PLANT FOODS CORP.  
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**NO.** Alpine SRN  
**DATE** 22/03/2011  
**PREPARED BY** Dietmar Walch



## SECTION I. MATERIAL IDENTIFICATION

<b>CHEMICAL NAME AND SYNONYMS:</b>	Nitrogen Blend	<b>TRADE NAME AND SYNONYMS:</b>	Urea-Triazone Fertilizer Solution Nitrogen fertilizer
<b>CHEMICAL FAMILY</b>	Organic Salt Solution	<b>FORMULA</b>	N/A Blend

## SECTION II. INGREDIENTS AND HAZARDS

	%	HAZARD DATA		%	HAZARD DATA
Total Nitrogen as N	28	N/A	28-0-0 72%	100	N/A
Total Phosphorus as P2O5	0	N/A			N/A
Total Potassium as K2O	0	N/A			N/A
Total Sulfur as S	0	N/A			N/A

## SECTION III. PHYSICAL DATA

Boiling point at 1 atm, deg C	104 Celcius	Specific gravity (H <sub>2</sub> O = 1)	1.29
Vapor pressure at (mm Hg)	N/A	Evap. Rate (_____ = 1)	
Vapor density (Air - 1)	N/A	Volatiles, % by Volume	N/A
Water solubility	Complete	Molecular weight	N/A
pH	9.0-10.5		
Appearance and Odor:	Clear liquid, slight amine odour		

## SECTION IV. FIRE AND EXPLOSION DATA

	LOWER	UPPER
Flash Point and Method N/A		
Autoignition Temp. N/A	N/A	N/A
Flammability Limits in Air N/A		
Extinguishing media:	N solutions are non-flammable. If involved in a fire, use water. Use procedures for surrounding materials	
Special fire fighting procedures:	Heating to dryness may cause release of carbon dioxide and ammonia.	
Unusual fire and explosion hazards:	None	

## SECTION V. HEALTH HAZARD INFORMATION

Effects of overexposure	Nitrogen solutions are considered to be low to moderate health hazards.	TLV	<b>None</b>
<b>FIRST AID:</b>			
Eye Contact:	Flush eye immediately and thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.		
Skin contact:	Flush skin immediately and thoroughly with water. If irritation persists, seek medical attention (should only affect if allergic).		
Inhalation:	Generally not considered an inhalation hazard.		
Ingestion:	If conscious, immediately give large quantities of water and induce vomiting. Get medical attention immediately.		

**SECTION VI. REACTIVITY DATA**

Stability	Stable	<input checked="" type="checkbox"/>	Conditions to avoid: When heated (e.g. in a fire) may give off ammonia gas.
	Unstable	<input type="checkbox"/>	
Incompatibility (Materials to Avoid)		Water-reactive materials.	
Hazardous decomposition products:		Ammonia	
Hazardous Polymerization:	May occur	<input type="checkbox"/>	Conditions to avoid:
	Will not occur	<input checked="" type="checkbox"/>	

**SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES**

SPILLS, LEAKS: (Steps to be taken)	Since N-P-K-S is a fertilizer, it may promote eutrophication in waterways. In the case of a spill, contain spill and maximize recovery. Mop up or pump up promptly in metal or plastic containers.
WASTE DISPOSAL METHOD:	Disposal of N-P-K-S fertilizer may be subject to federal, state, and local regulations. Users of this product should review their operations in terms of applicable federal, state, and local laws and regulations, then consult with appropriate regulatory agent before discharging or disposing.

**SECTION VIII. SPECIAL PROTECTION INFORMATION**

Respiratory protection (Specify Type)	Respirators are not required under normally ventilated conditions. If heated to evolve ammonia, use appropriate protection. If misted by heat, agitation or spray, use a mist respirator approved by NIOSH. Do not use single-use type.		
Ventilation:	Local Exhaust	Adequate	Special
	Mechanical (General)	Only if heated	Other
Protective Gloves:	Rubber gloves are recommended	Eye Protection:	Safety glasses are recommended
Other protective equipment and precautions	Not generally required.		

**SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS**

Storage & Handling Information		Hazard Rating (N.F.P.A.)	
Other Precautions	None	Health:	1
		Fire:	0
DOT Class	Not Applicable	Reactivity:	0
		Specific:	0
<p>Judgements as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information ALPINE PLANT FOODS CORPORATION extends no warranties, makes no representations and assumes no responsibility as to accuracy or suitability of such information for application to purchaser's intended purposes of for consequences of its use.</p>		<p>This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association (N.F.P.A.)</p>	
Signature: _____	Title: Plant Manager		